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(12) **United States Plant Patent**
Adams

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(54) **RASPBERRY PLANT NAMED 'OVATION'**

(50) Latin Name: ***Rubus idaeus***
Varietal Denomination: **OVATION**

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patent is extended or adjusted under 35
U.S.C. 154(b) by 179 days.

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(65) **Prior Publication Data**

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(51) **Int. Cl.**
A01H 5/08 (2006.01)

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Latin name of the genus and species of the plant claimed:
Rubus idaeus.

Variety denomination: 'OVATION'.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct fall bearing raspberry variety designated as 'OVATION'. This new variety is a result of a controlled cross made in 2008 in Watsonville, Calif. between raspberry variety 'PS-3721' (unpatented) as the female parent and raspberry variety 'GRANDEUR' (patented, U.S. Plant Pat. No. 20,459) as the male parent in an ongoing breeding program. The variety is botanically known as *Rubus idaeus*.

The seedling resulting from the aforementioned cross was asexually propagated by dormant canes in Santa Cruz County, Calif. and was subsequently selected by the inventor from a controlled breeding plot in Watsonville, Calif. in 2010. After its selection, the new variety was further asexually propagated by dormant canes, roots and non-dormant root shoot cuttings in Santa Cruz County, Calif., San Joaquin County, Calif. and Siskiyou County, Calif. The new variety was then extensively tested over the next several years in fruiting fields in Santa Cruz County, Calif. This propagation has demonstrated that the combination of traits disclosed herein as characterizing the new variety are fixed and remain true to type through successive generations of asexual reproduction.

BRIEF SUMMARY OF THE INVENTION

'OVATION' is primarily adapted to the climate and growing conditions of the central coast of California. This region provides the necessary year-round temperatures required for it to produce and maintain a strong vigorous plant and to

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(58) **Field of Classification Search**

USPC **Plt./204**

See application file for complete search history.

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(57) **ABSTRACT**

This invention relates to a new and distinct everbearing variety of raspberry plant named 'OVATION'. The new variety is primarily adapted to the growing conditions of the central coast of California and is characterized by the following: mid-season primocane production with medium sized fruit of medium red coloration and medium gloss. Fruit is of consistent conic shape, weak adherence of receptacle and is of excellent flavor. Foliage is slightly concave, medium green; possessing medium rugosity and mostly 5 foliates. Primocanes have an absent or very weak waxy coat, sparse thorn density and strong anthocyanin coloration.

4 Drawing Sheets

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remain in fruit production from July through December on primocanes and in the ensuing year from May through July on the floricanes. The following traits have been repeatedly observed and are determined to be unique characteristics of

5 'OVATION', which in combination distinguish this raspberry plant as a new and distinct variety:

1. Mid-season primocane fruiting
2. Mostly 5 foliate
3. Medium red fruit color
4. Sparse thorn density
5. Excellent flavor

The raspberry variety that is believed to be most closely related to the new raspberry variety 'OVATION' is the raspberry variety 'GRANDEUR' (patented, U.S. Plant Pat. No. 20,459). In comparison to the similar raspberry variety 'GRANDEUR', 'OVATION' differs by the following combination of characteristics described in Table 1:

TABLE 1

Characteristic	'OVATION'	'GRANDEUR' (U.S. Plant Pat. No. 20,459)
Primocane waxy coat (glaucoosity)	Absent to very weak	Absent to very weak
Predominate number of leaflets	Mostly 5	Always 3
Leaf shape (cross section)	Slightly concave	Flat to slightly convex
Rugosity	Medium	Strong
Color mature fruit	RHS 45A	RHS 42A
Primocane fruit weight (g)	Medium red	Medium red
Floricanes color	4.2	3.9
	RHS 166B	RHS 164A
	Greyed-orange group	Greyed-orange group

'OVATION' differs from its parents, 'PS-3721' and 'GRANDEUR' by the following combination of characteristics described in Table 2:

TABLE 2

Characteristic	'OVATION'	'PS-3721'	'GRANDEUR' (U.S. Plant Pat. No. 20,459)
Productivity	High	Low	High
Glossiness (fruit)	High	Medium	Medium
Adherence of receptacle	Weak	Strong	Weak
Primocane time of fruiting	Medium	Medium	Medium
Fruit size	Medium	Large	Medium
Flavor	Excellent	Poor	Good

For identification, a series of molecular markers have been determined for this new variety.

BRIEF DESCRIPTIONS OF THE DRAWINGS

The accompanying color photographs illustrate the overall appearance of typical specimens of the new raspberry variety, 'OVATION' at various stages of development as true as reasonably possible with color reproductions of this type. Color in the photographs may differ slightly from the color value cited in the detailed botanical description which accurately describes the color of 'OVATION'. The depicted plant and plant parts of the new raspberry variety 'OVATION' were taken in Watsonville, Calif. and are approximately 2 to 16 months old:

FIG. 1 shows typical primocane foliage and fruit color; foliate and rugosity characteristics of 'OVATION' taken in the month of July 2014;

FIG. 2 shows typical coloration of apical growing tip during early primocane rapid growth of 'OVATION' taken in the month of May 2013;

FIG. 3 shows typical harvested fruit of 'OVATION' taken in the month of July 2014;

FIG. 4 shows typical dormant cane color characteristics of 'OVATION' taken in the month of January 2013.

DETAILED BOTANICAL DESCRIPTION

'OVATION' has not been observed under all possible environmental conditions. The characteristics of the new variety may vary in detail, depending upon variations in environmental factors, including weather (temperature, humidity and light intensity), day length, soil type, and location.

The aforementioned photographs, together with the following description of the new raspberry variety 'OVATION', unless otherwise noted, are based upon observations taken during the 2013-2014 growing season in Watsonville, Calif. Primocane measurements and ratings were taken from plants of 'OVATION' dug from a nursery located in Siskiyou County, Calif. during the middle of October 2012 and planted approximately 3 to 4 weeks later in Watsonville, Calif. The approximate age of the observed primocane plants is 7 to 8 months. Floricane measurements and ratings were taken from the same planting of 'OVATION' at an approximate age of 16 to 18 months. Yield observations and fruit quality characteristics are averaged from five years of data collected from the 2009 through 2013 production seasons. Flower measurements and characteristics are from secondary flowers unless otherwise noted. Fruit character-

istics and measurements are from secondary fruit unless otherwise noted. Foliage characteristics and measurements are from 3-foliate foliage unless otherwise noted.

Color terminology where noted follows The R.H.S. Colour Chart Fifth Edition, Royal Horticultural Society, London, United Kingdom (1966).

The following tables 3-7 describe fruit, plant, foliage, flower and pest/disease characteristics of the new raspberry 'OVATION' in comparison to the similar raspberry varieties 'GRANDEUR' (patented, U.S. Plant Pat. No. 20,459).

TABLE 3

Characteristic	'OVATION'	'GRANDEUR' (U.S. Plant Pat. No. 20,459)
Color mature fruit	RHS 45A Medium red	RHS 42A Medium red
Color achenes	RHS 159A Orange-white group	RHS 159A Orange-white group
Fruit length (mm)	23.55	22.91
Fruit width (mm)	21.62	20.12
Length/Width ratio	1.09	1.14
	Longer than broad	Longer than broad
Seed weight (mg)	1.95	1.75
Druplets per berry	108	93
Weight of single drupe (g/drupe)	0.046	0.043
Relative size of drupes	Medium	Medium
Fruit size	Medium	Medium
Predominant shape	Conical	Conical
Evenness of color	Even	Even
Glossiness	Medium	Medium
Adherence of receptacle	Weak	Weak
Firmness of flesh	Firm	Very firm
Firmness of skin	Firm	Very firm
Soluble Solids (% brix)	10.9	10.5
Flavor	Excellent	Good

TABLE 4

Characteristic	'OVATION'	'GRANDEUR' (U.S. Plant Pat. No. 20,459)
General:		
Habit	Upright	Upright
Size	Tall	Medium
Productivity	High	High
Self-fruitfulness	Yes	Yes
Type of bearing	Everbearing	Everbearing
Primocane:		
Color (true)	RHS 145A Yellow-green group	RHS 145B Yellow-green group
Length (cm)	200.8	143.6
Basal diameter (mm)	15.90	21.80
Diameter central $\frac{1}{3}$ (mm)	14.41	12.55
Lateral length at central $\frac{1}{3}$ (cm)	40.2	43.6
No. fruiting laterals per cane	15.8	17.4
Internode length at central $\frac{1}{3}$ (mm)	58.75	48.84
Anthocyanin coloration	RHS 59A Red-purple group	RHS 59B Red-purple group
Anthocyanin intensity	Strong	Weak
Pubescence	Absent	Absent
Length of vegetative bud (mm)	9.93	11.01
Strength of waxy coat	Absent to very	Absent to very

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TABLE 4-continued

PLANT CHARACTERISTICS		
Characteristic	'OVATION'	'GRANDEUR' (U.S. Plant Pat. No. 20,459)
(glaucoosity)	weak	weak
Time of flowering	Medium	Medium
Time of fruiting	Medium	Medium
length of fruiting season	Long	Long
% of total yield	46%	50%
Flowering period	Late June to Late November	Late June to Late November
Harvest period	Late July to Late December	Late July to Late December
Primocane fruit weight (g)	5.2	3.9
Primocane yield (g/plant)	2,627	2,662
Young Shoots:		
Number (per meter)	20-25	15-20
Anthocyanin presence	Medium	Medium
Anthocyanin coloration	Present	Present
Anthocyanin intensity	RHS 179B	RHS 179A
Thorns:	Greyed-red group	Greyed-red group
Thorn coloration	RHS 180C Greyed-red group	RHS 180C Greyed-red group
Thorn length at central $\frac{1}{3}$ (mm)	0.34	0.76
Thorn base at central $\frac{1}{3}$ (mm)	0.82	1.53
Thorn presence	Present	Present
Thorn density per cm at central $\frac{1}{3}$	0.75	3.38
Thorn texture	Sparse	Medium
Attitude of the tip	Rigid	Rigid
Floricane:	Horizontal	Horizontal
Color (true)	RHS 166B Greyed-orange	RHS 164A Greyed-orange
Length (cm)	132.1	119.8
Fruiting lateral attitude	Erect	Erect
Time bud burst	Medium	Medium
Time of flowering	Medium	Medium
Time of fruiting	Medium	Medium
Length of fruiting season	Medium to long	Medium to long
% of total yield	54%	50%
Flowering period	Late April to Late June	Late April to Late June
Harvest period	Late May to Late July	Late May to Late July
Late July		
Floricane fruit weight (g)	5.0	3.7
Floricane yield (g/plant)	3,108	2,680

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TABLE 5-continued

FOLIAGE CHARACTERISTICS		
Characteristic	'OVATION' (3 Foliate)	'GRANDEUR' (U.S. Plant Pat. No. 20,459) (3 Foliate)
Terminal Leaflet:		
Length (mm)	141.8	127.5
Width (mm)	79.9	91.6
Length/Width Ratio	1.8	1.4
	Much longer than broad	Longer than broad
Size	Medium to large	Medium to large
Shape	Cordate	Cordate
Shape of base	Cordate	Cordate
Shape of tip	Acuminate	Acuminate
Margins	Riserrate	Biserrate
Lateral Leaflet:		
Length (mm)	106.8	105.5
Width (mm)	54.8	65.1
Length/Width Ratio	1.9	1.6
	Much longer than broad	Longer than broad
Rachis length (mm)	36.8	36.2
Orientation	Opposite	Opposite
Arrangement	Compound	Compound
Shape	Ovate	Ovate
Overlapping	Overlapping	Touching
Shape of the base	Rounded	Oblique rounded
Shape of the tip	Acuminate	Acuminate
Margins	Biserrate	Biserrate
Petiole:		
Length (mm)	89.26	59.00
Width (mm)	3.82	3.99
35 Thorn presence	Yes	Yes
Thorn orientation	Erect	Erect
Anthocyanin coloration	RHS 187C	RHS 184C
of upper surface	Greyed-purple group	Greyed-purple group
Anthocyanin intensity of	Strong	Weak
upper surface		
Stipule length (mm)	11.40	10.23
Stipule orientation	Erect	Erect to horizontal
45		

TABLE 6

FLOWER CHARACTERISTICS		
Characteristic	'OVATION'	'GRANDEUR' (U.S. Plant Pat. No. 20,459)
Petal color	155C White group	155C White group
Flower diameter (mm)	22.66	22.55
Petal Length (mm)	7.64	6.42
Petal width (mm)	3.39	3.11
Petal length/width ratio	2.25	2.06
	Much longer than broad	Much longer than broad
No. petals/flower	6.0	5.2
No. sepals/flower	6.0	5.2
Relative number of pedicel thorns	19.4	16.2
60 Peduncle anthocyanin presence	Medium	Medium
Peduncle anthocyanin coloration	Present	Present
	RHS 187C Greyed-purple	RHS 184A Greyed-purple
Peduncle anthocyanin intensity	group Strong	group Medium
65		

TABLE 5

FOLIAGE CHARACTERISTICS		
Characteristic	'OVATION' (3 Foliate)	'GRANDEUR' (U.S. Plant Pat. No. 20,459) (3 Foliate)
General:		
Color of upper surface	RHS 137A Green group	RHS N137A Green group
Color of lower surface	RHS 190B Greyed-green group	RHS 190B Greyed-green group
Shape in cross section	Slightly concave	Flat to slightly convex
Arrangement	Compound	Compound
Relief between veins	Medium	Strong
(rugosity)	Weak	Weak
Glossiness	Mostly 5	Always 3
Number of leaflets/leaf		

TABLE 7

PEST AND DISEASE REACTIONS		
Characteristic	'OVATION'	'GRANDEUR' (U.S. Plant Pat. No. 20,459)
Spotted wing <i>drosophila</i> (<i>Drosophila suzukii</i>)	Susceptible	Susceptible
Two spotted spider mite (<i>Tetranychus urticae</i>)	Susceptible	Susceptible
Grey fruit mold (<i>Botrytis cinerea</i>)	Susceptible	Susceptible
Powdery mildew (<i>Podosphaera aphanis</i> var. <i>aphanis</i>)	Moderately susceptible	Moderately susceptible

TABLE 7-continued

PEST AND DISEASE REACTIONS		
Characteristic	'OVATION'	'GRANDEUR' (U.S. Plant Pat. No. 20,459)
Yellow rust (<i>Phragmidium rubi-idaei</i>)	Moderately resistant	Moderately susceptible

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I claim:

1. A new and distinct variety of raspberry plant named 'OVATION', as herein described and illustrated by the characteristics set forth above.

* * * * *

FIG. 1



FIG. 2

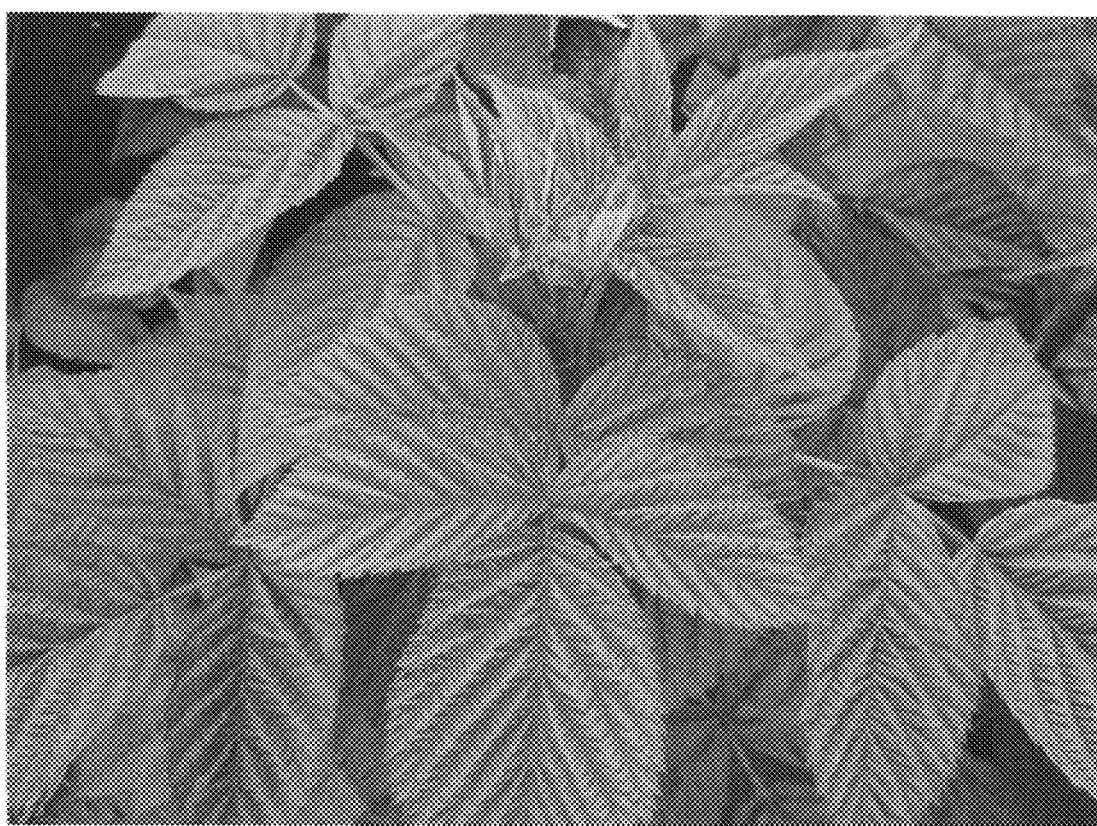


FIG. 3



FIG. 4

